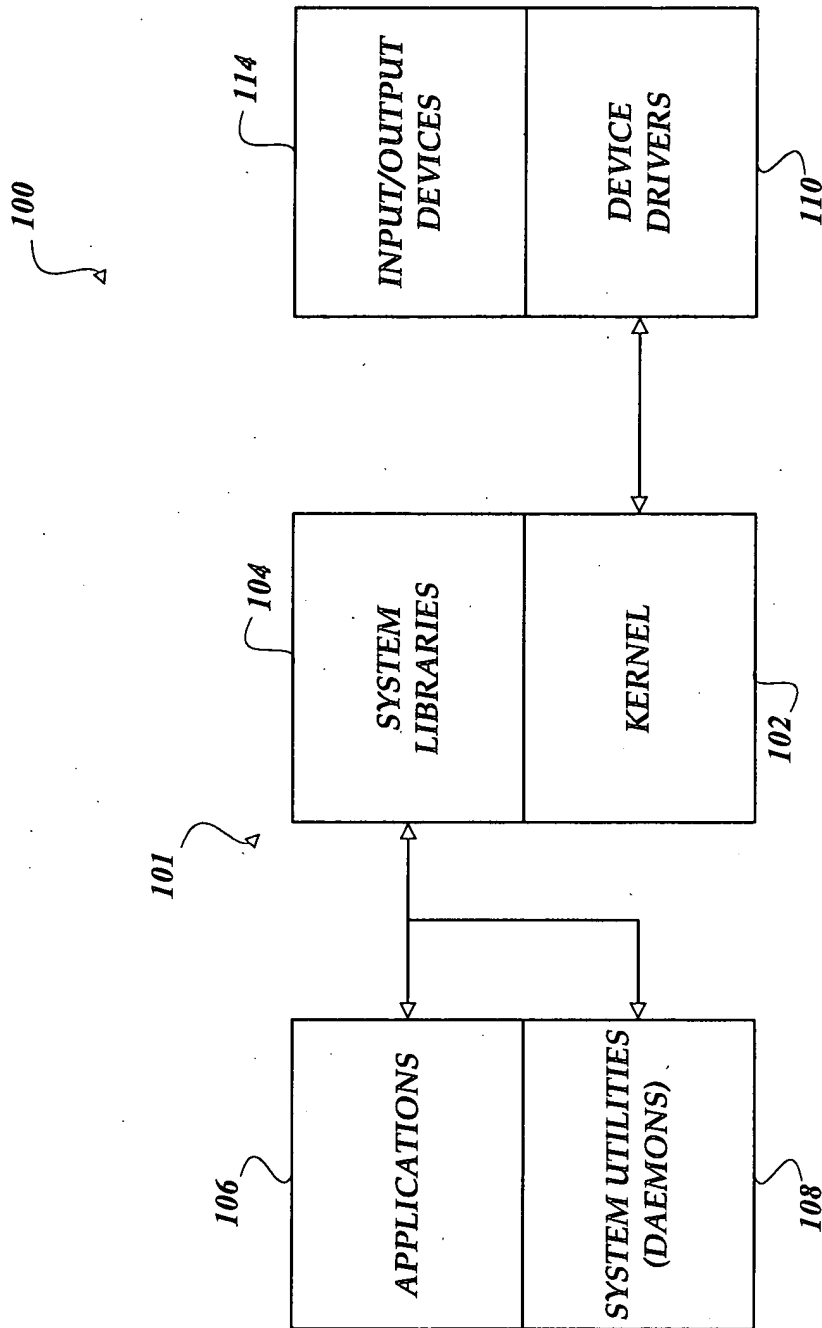


MSFT-1-21952

1/15

Fig. 1.

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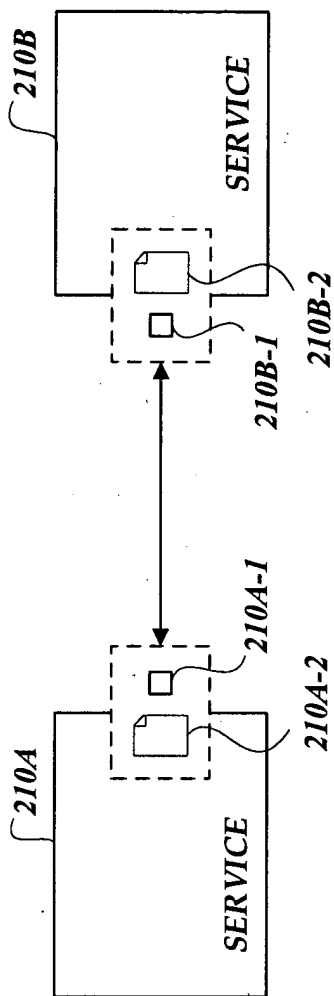


Fig. 2A.

UNILATERAL CONTRACT PDA { 210A-3

// AVAILABLE MESSAGES 210A-4

OPEN(FILENAME); 210A-5

PLAY(PORT); 210A-6

RECORD(DATA); 210A-7

CLOSE(FILENAME); 210A-8

// BEHAVIORS 210A-9

B = OPEN.BPR;

BPR = PLAY.BPR + RECORD.BPR + CLOSE;

}

Fig. 2B.

UNILATERAL CONTRACT SPEAKER { 210B-3

// AVAILABLE MESSAGES 210B-4

OPEN(FILENAME); 210B-5

REPRODUCE(PORT); 210B-6

CLOSE(FILENAME); 210B-7

// BEHAVIORS 210B-8

B = OPEN.BP;

BP = REPRODUCE.BP + CLO210B-8

}

Fig. 2C.

MSFT-1-21952

3/15

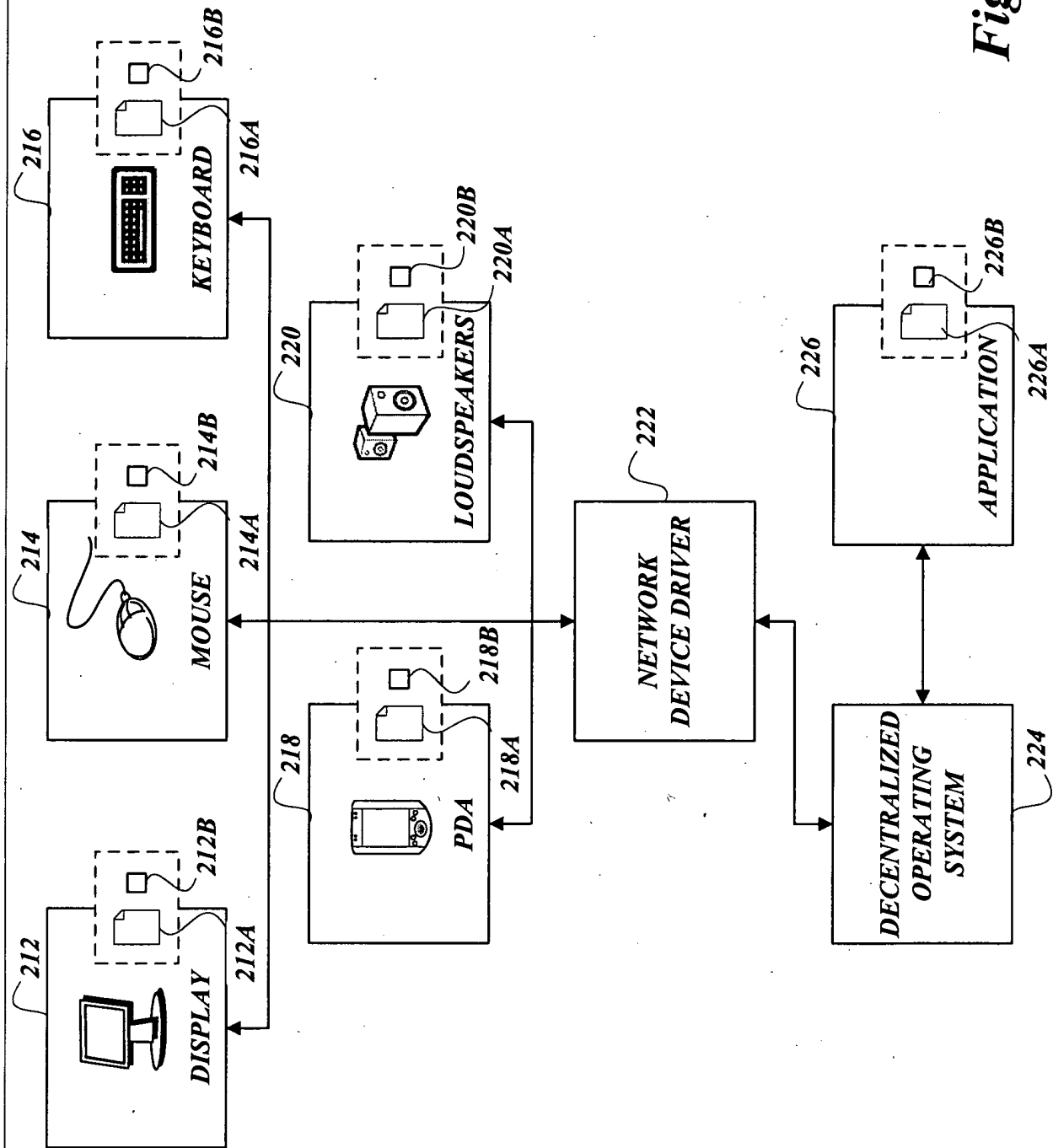
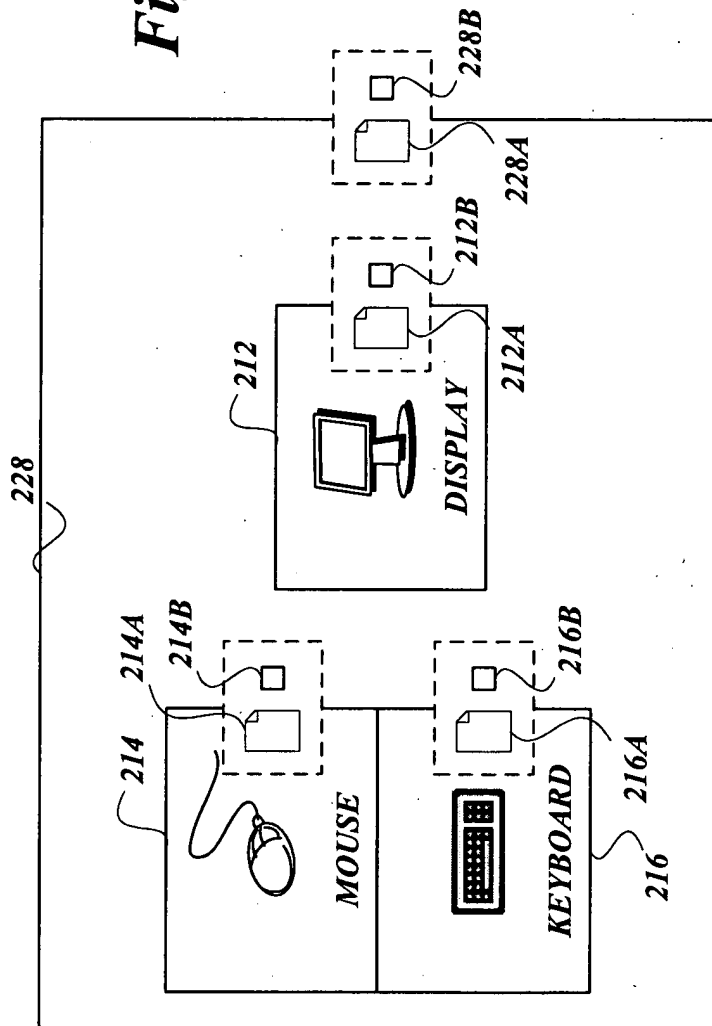


Fig. 2D.

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Fig. 2E.



MSFT-1-21952

5/15

Fig. 2G.

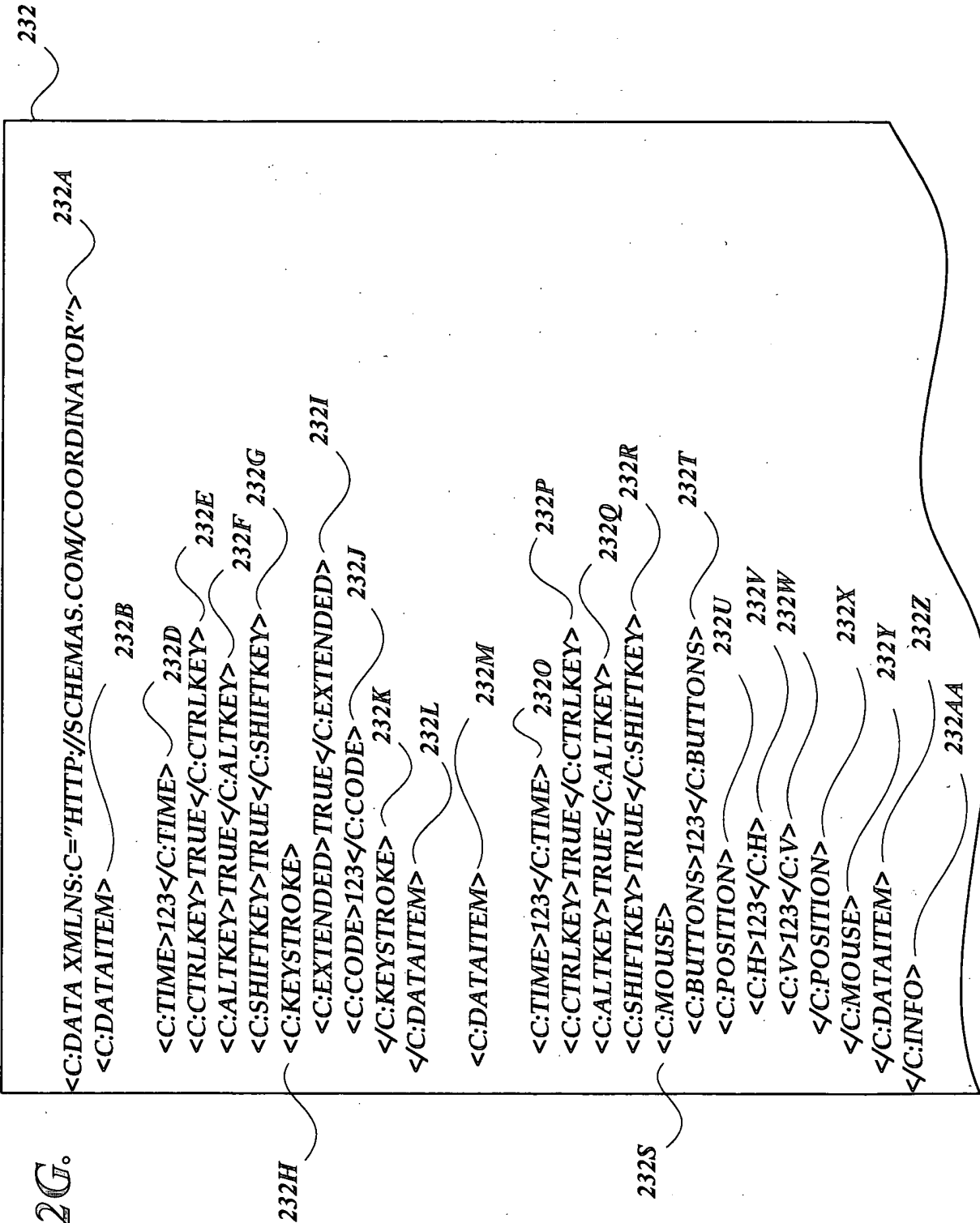


Fig. 2H.

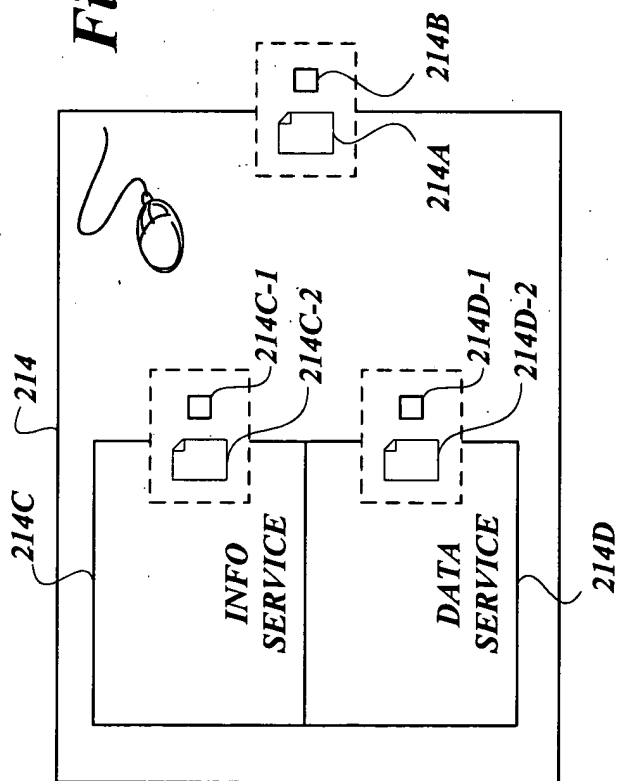
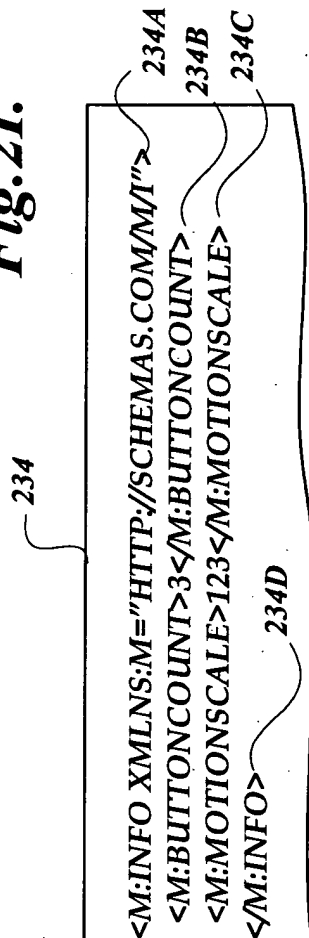
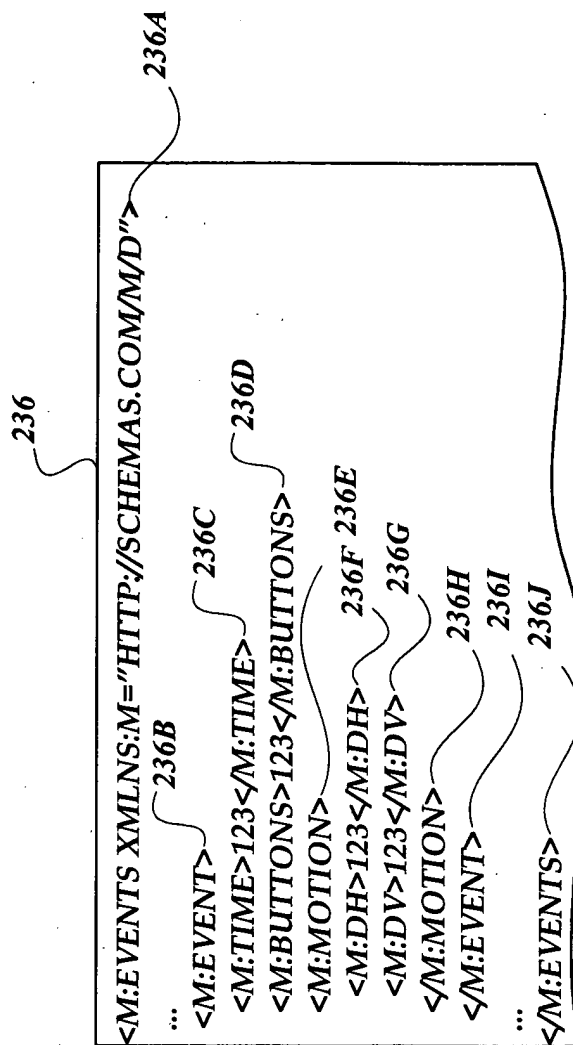


Fig. 2I.



6/15

Fig. 2J.



MSFT-1-21952

Fig. 2K.

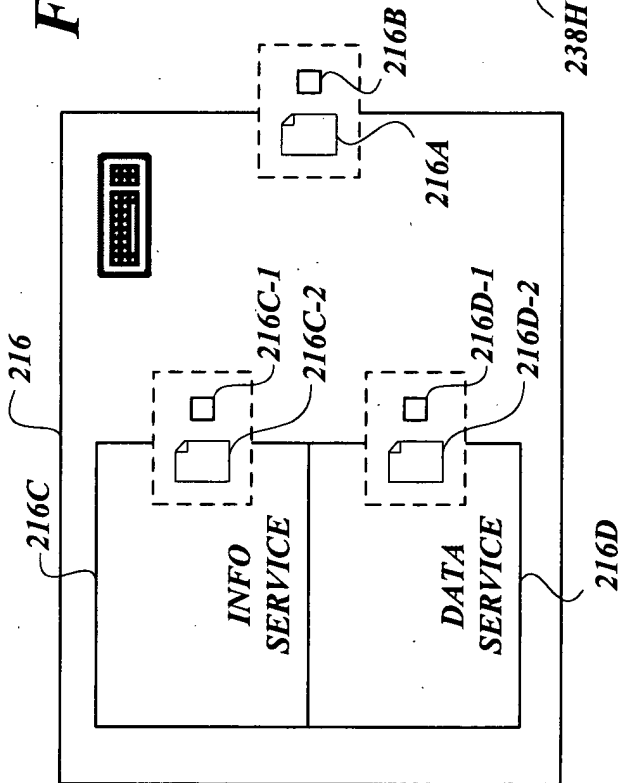


Fig. 2L.

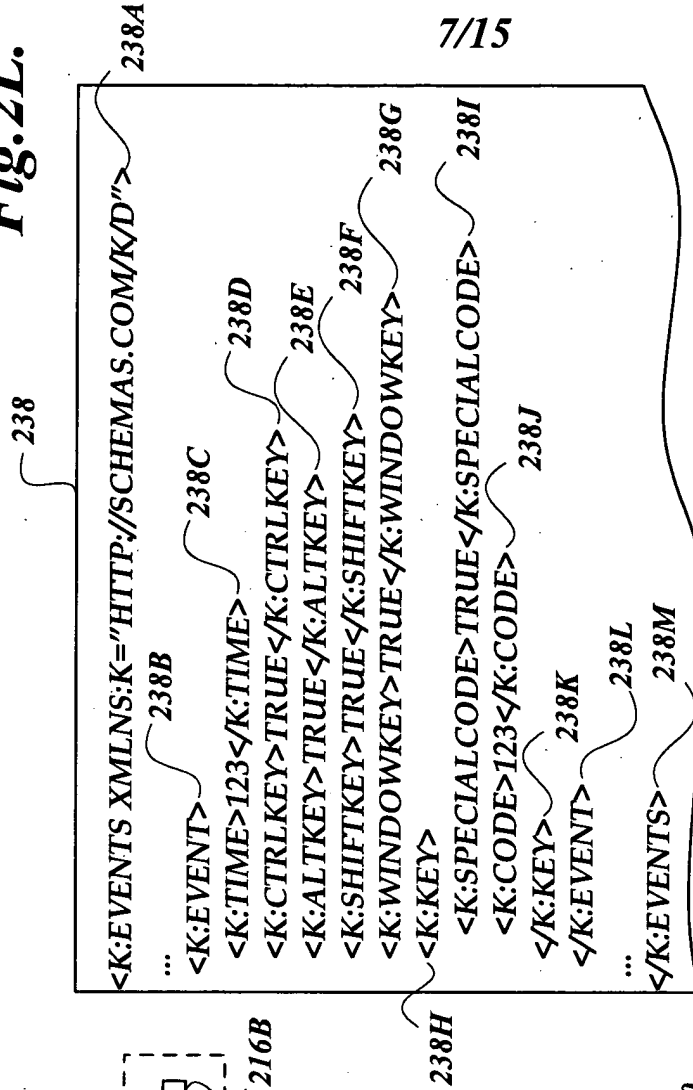
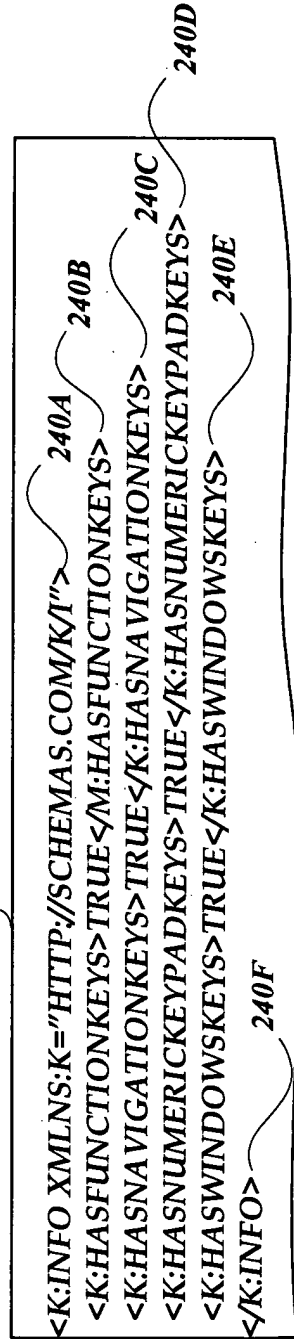


Fig. 2M.



MSFT-1-21952

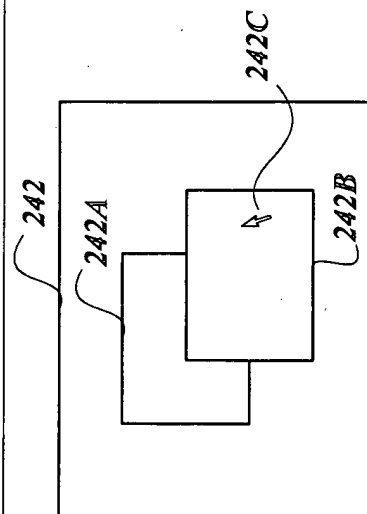


Fig. 2N.

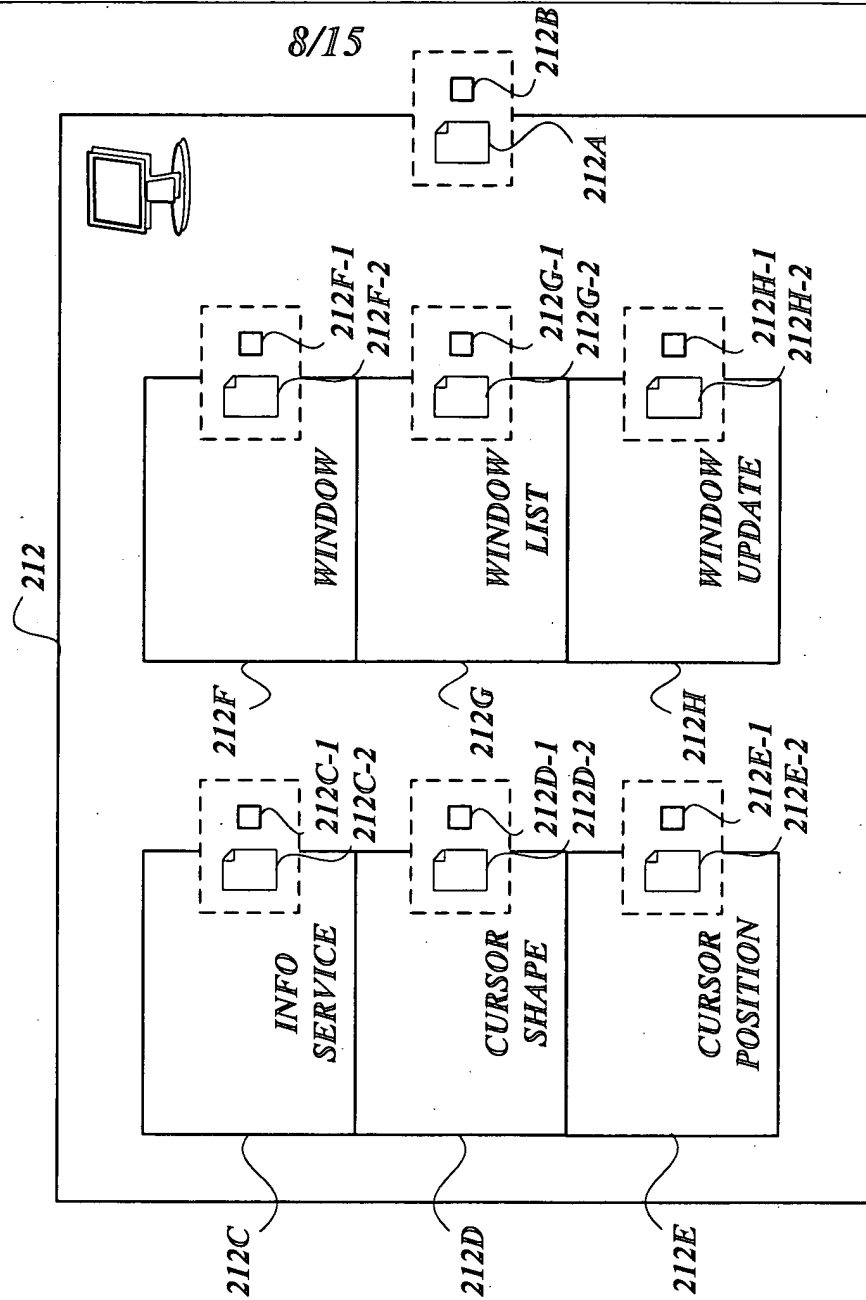


Fig. 20. 212D.

DRAFT

9/15

Fig. 2P.

244A
244B 244C 244D 244E
<D:INFO XMLNS:D="HTTP://SCHEMAS.COM/D/I">
<D:W>123</D:W>
<D:H>123</D:H>
<D:FORMAT>RGB32</D:FORMAT>
</D:INFO>

Fig. 2Q.

246A 246B 246C 246D 246E 246F 246G 246H
<D:SHAPE XMLNS:D="HTTP://SCHEMAS.COM/C/S">
<D:IMAGE> ... </D:IMAGE>
<D:MASK> ... </D:MASK>
<D:HOTPOT>
<D:DH>-3</D:DH>
<D:DV>-5</D:DV>
<D:HOTPOT>
</D:SHAPE>

Fig. 2R.

248A 248B 248C 248D
<D:POSITION XMLNS:D="HTTP://SCHEMAS.COM/C/P">
<D:H>123</D:H>
<D:V>123</D:V>
</D:POSITION>

Fig. 2S.

250A 250B 250C 250D 250E 250F 250G 250H
<D:WINDOW XMLNS:D="HTTP://SCHEMAS.COM/D/W">
<D:URI> ... </D:URI>
<D:T>123</D:T>
<D:L>123</D:L>
<D:W>123</D:W>
<D:H>123</D:H>
<D:DROPTIME>123</D:DROPTIME>
</D:WINDOW>

Fig. 2T.

252
 <D:WINDOWS XMLNS:D="HTTP://SCHEMAS.COM/D/WS">
 ... 252A
 <D:URI> ... 252B
 <D:URI> ... 252C
 ... 252D
 </D:WINDOWS>

254

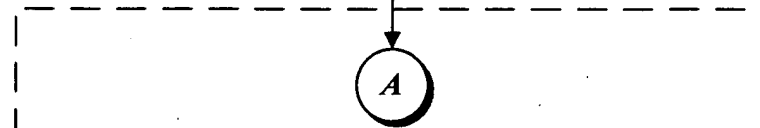
254A
 <C:INFO XMLNS:C="HTTP://SCHEMAS.COM/COORDINATOR">
 <C:KEYBOARDATAURI> ... 254B
 <C:MOUSEDATAURI> ... 254C
 <C:DISPLAYCURSORPOSITIONURI> ... 254D
 <C:DISPLAYWIDTH>123</C:DISPLAYWIDTH> 254E 254F
 <C:DISPLAYHEIGHT>123</C:DISPLAYHEIGHT> 254G
 <C:MOUSEGAIN>123</C:MOUSEGAIN> 254H
 <C:MOUSEPOSITION> 254I
 <C:H>123</C:H> 254J
 <C:V>123</C:V> 254K
 </C:MOUSEPOSITION> 254L
 </C:INFO>

Fig. 2F.

11/15

**START A METHOD FOR
PROCESSING I/O EVENTS BY DEVICES AS SERVICES**

300



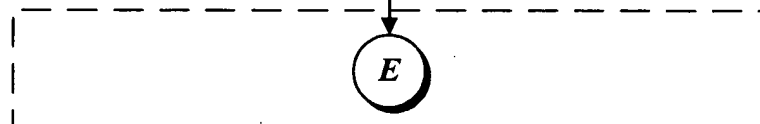
**A KEYBOARD SERVICE PROCESSES KEYBOARD
EVENTS (SEE FIG. 3B)**

302



**A MOUSE SERVICE PROCESSES MOUSE EVENTS
(SEE FIG. 3C)**

304



**A DISPLAY SERVICE PROCESSES DISPLAY
EVENTS (SEE FIGS. 3D-3E)**

306



FINISH

Fig.3A.

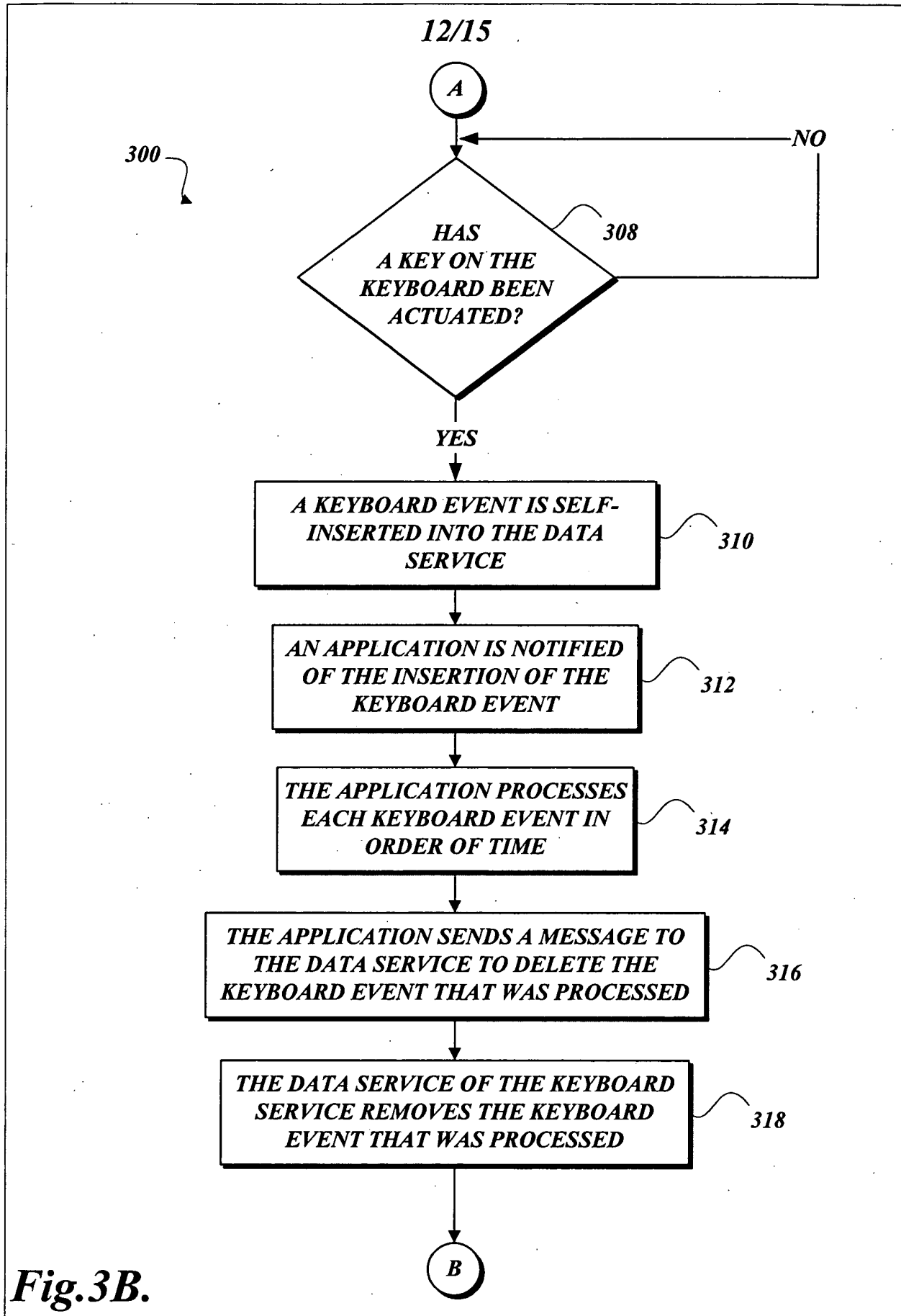


Fig.3B.

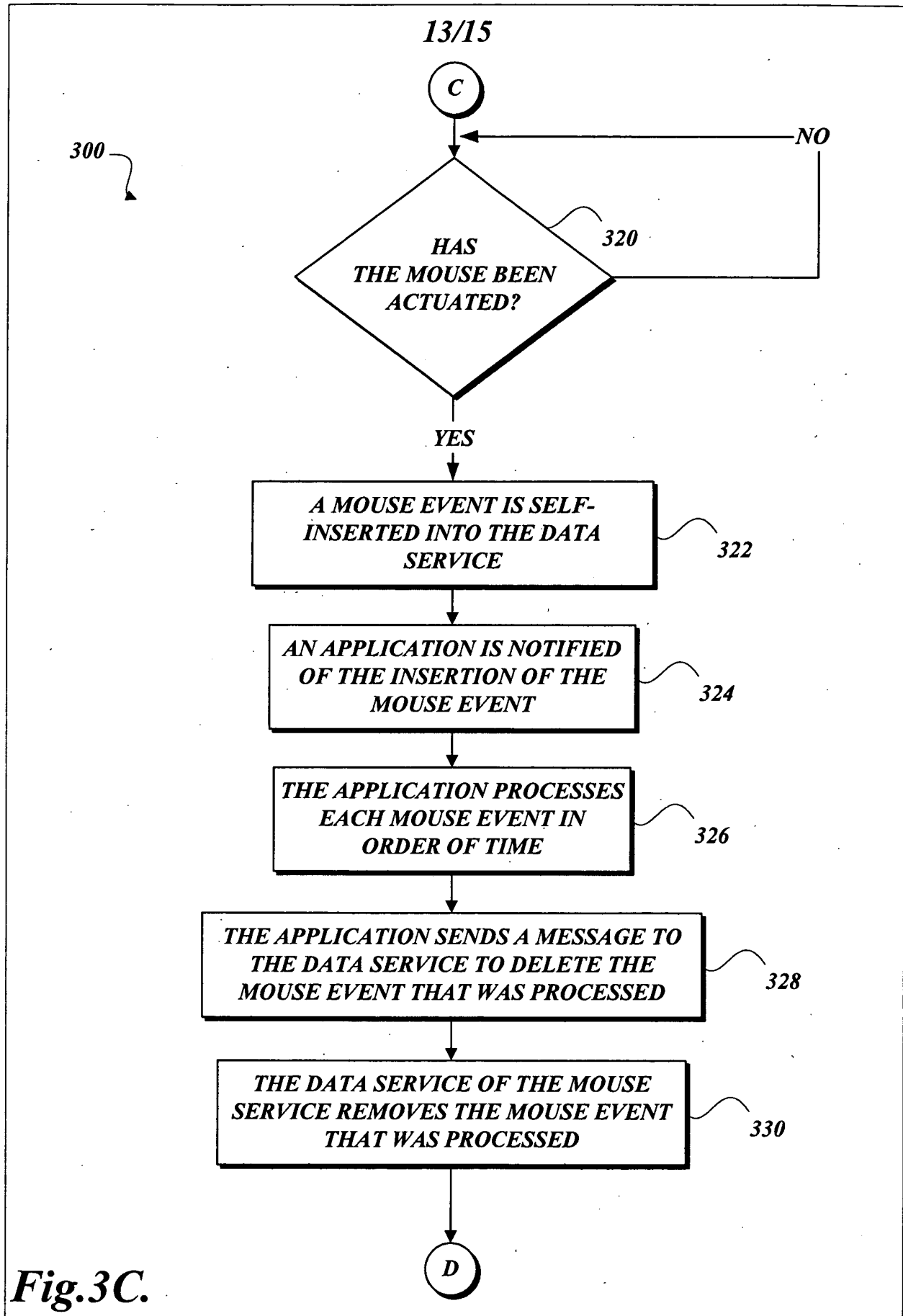


Fig.3C.

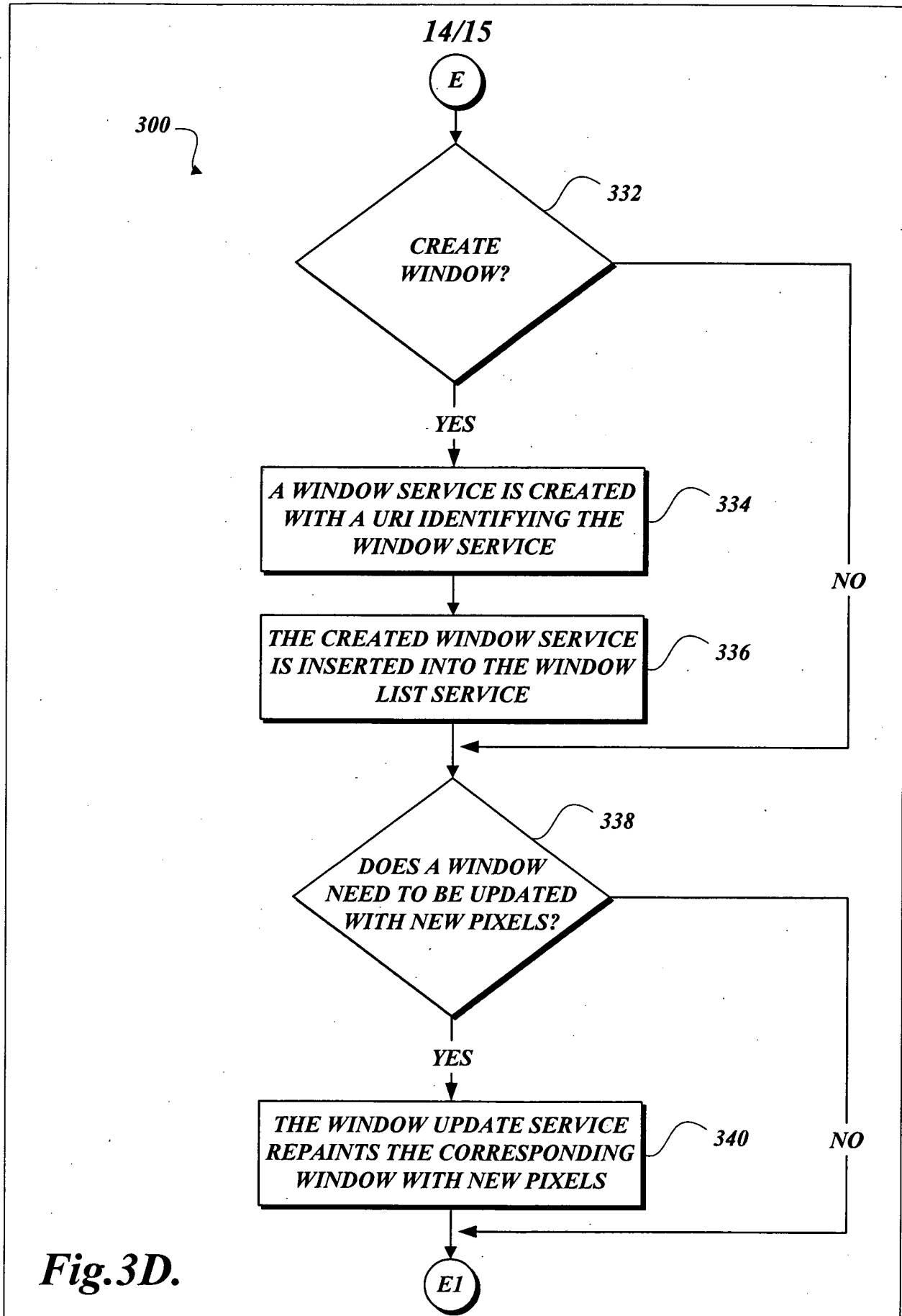


Fig.3D.

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MSFT-1-21952

